

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/002501

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B32B15/08 B32B27/34 B32B7/10 B32B31/00 B60J5/00
C08L77/00 C08L51/06 C08L101/00 C09J151/06 C09J177/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B32B E04C C08L C09J B60J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y	US 4 690 856 A (ITO BUNSAKU ET AL) 1 September 1987 (1987-09-01) cited in the application column 5, line 24 - column 7, line 30; examples 7,8; table 1 column 8, lines 8-21; examples 7,8; table 1	1-6, 8-11,17, 21,24
X	claim 2	20
X, Y	US 5 548 027 A (HEUCHER REIMAR ET AL) 20 August 1996 (1996-08-20) column 6, lines 53-57; claims 1,3,11-13,19,20 examples 1,2	1,2, 5-11,14, 17,21,24

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

G document member of the same patent family

Date of the actual completion of the international search

2 November 2004

Date of mailing of the international search report

11/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Lindner, T

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/002501

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 354 521 A (RXS SCHRUMPFTECH GARNITUREN) 14 February 1990 (1990-02-14) page 2, line 54 - page 3, line 30 -----	1,2, 4-11,14, 17
Y	DE 100 11 589 A (BAYERISCHE MOTOREN WERKE AG) 13 September 2001 (2001-09-13) column 1, lines 1-20 -----	3
A	US 4 601 941 A (LUTZ ROBERT G ET AL) 22 July 1986 (1986-07-22) column 1, line 12 - column 2, line 27 column 6, line 18 - column 7, line 64 column 9, lines 21-26 column 13, line 33 - column 14, line 50 -----	1-24
A	US 4 048 355 A (SAKAYORI SEIGO ET AL) 13 September 1977 (1977-09-13) column 5, lines 55-58 column 7, line 47 - column 8, line 36 column 9, lines 3-9; example 8; table 1 -----	1-23

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/002501

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4690856	A	01-09-1987	JP 1620207 C	30-09-1991
			JP 2048194 B	24-10-1990
			JP 61152782 A	11-07-1986
			US 4780358 A	25-10-1988
US 5548027	A	20-08-1996	DE 4211125 A1	07-10-1993
			AT 162543 T	15-02-1998
			CA 2133562 A1	14-10-1993
			DE 59308047 D1	26-02-1998
			WO 9320166 A1	14-10-1993
			EP 0633919 A1	18-01-1995
			ES 2111738 T3	16-03-1998
			JP 7505422 T	15-06-1995
EP 0354521	A	14-02-1990	EP 0354521 A2	14-02-1990
DE 10011589	A	13-09-2001	DE 10011589 A1	13-09-2001
US 4601941	A	22-07-1986	CA 1249962 A1	14-02-1989
			DE 3573752 D1	23-11-1989
			EP 0174044 A2	12-03-1986
			JP 1847292 C	07-06-1994
			JP 5056266 B	19-08-1993
			JP 61068242 A	08-04-1986
US 4048355	A	13-09-1977	JP 968946 C	31-08-1979
			JP 50082184 A	03-07-1975
			JP 53004880 B	21-02-1978
			DE 2455443 A1	28-05-1975
			FR 2252187 A1	20-06-1975
			GB 1471714 A	27-04-1977
			IT 1025933 B	30-08-1978
			US RE30006 E	22-05-1979